INDEX.

Action of water upon pipes. FREELAND HOWE, JR. 43–56. Disc. 56–58, Mar.

Automobile. Experience with an automobile for water-works use. F. F. FORBES. 38–41. Disc. 41–42, Mar.

Bancroft, Lewis M. Treasurer's report for 1907. 67–70, Mar.

Barbour, Frank A. Insurance rates and the water service. 322–329. Disc. 329–333, Sept.

Book reviews.

Hydro-electric developments. PRESTON PLAYER. 379, Sept.
Modern baths and bath-houses. WM. PAUL GERHARD. 86, Mar.
Public water supplies. TURNEAURE and RUSSELL. 503, Dec.
Sewer construction. HENRY N. OGDEN. 501, Dec.
Reservoirs. JAMES D. SCHUYLER. 501, Dec.
Typhoid fever. GEORGE C. WHIPPLE. 378, Sept.
Trade publications. 379, Sept.

Chandler, Charles E. Stream flow data. 409–418, Dec.

Chemistry of water and its action upon pipes. FREELAND HOWE, JR. 43–56. Disc. 56–58, Mar.

Collins, M. F. (with Morris Knowles and A. D. Marble). Filter operations, investigations for additional supply, and construction of new filter at Lawrence, Mass. 192–232. Disc. 232–236, June.

Compensation in kind for diversion of water. ROBERT E. HORTON. 334–344. Disc. 344–353, Sept.

Compressed air. Tunnel work at Gloucester, Mass. HERMAN W. SPOONER. 261–278, Sept.

Concrete steel dams. CHARLES H. EGLEE. 20–30. Disc. 30–35, Mar.

Conservation

Of forests. R. S. KELLOGG. 389–393. Disc. 393–408, Dec.
Of water resources. M. O. LEIGHTON. 381–388, Dec.

Consumption of water. Meters and water consumption of the Hartford water works. ERMON M. PECK. 282–288, Sept.

Dam. Troy water works extension. E. L. GRIMES. 164–183, June.

Dams. Hollow concrete-steel (Ambursen type). CHARLES H. EGLEE. 20–30, Disc. 30–35, Mar.

Dana, Gorham. Private fire protection and insurance rules. 465–479. Disc. 479–494, Dec.

Depth of laying water pipes. Committee appointed. 363–370, Sept.
Diversion of water compensated for by storage. ROBERT E. HORTON. 334–344. Disc. 344–353, Sept.

Eglee, Charles H. Hollow concrete-steel dams. 20–30. Disc. 30–35, Mar.

Farnham, Irving T. Obituary. 376–377, Sept.
Filters.
Lawrence, Mass.; operation, and construction of new filter. MORRIS KNOWLES, M. F. COLLINS, and A. D. MARBLE. 192–232, June.
Collapse of filter roof at Lawrence, Mass. SANFORD E. THOMPSON. 237–246, June.
Efficiency of Watertown, N. Y., filters. F. H. JENNINGS. 136–143, June.
Fire protection.
Cost of furnishing. W. C. HAWLEY. 297–298, Sept.
Private, and insurance rules. GORHAM DANA. 465–479. Disc. 479–494, Dec.
Fire services. Private. A city's right to meter private fire services Decision of Mass. Supreme Court in Shaw Stocking Company *v.* Lowell. 279–281, Sept.
Flow of streams. CHARLES E. CHANDLER. 409–418, Dec.
Forbes, Fayette F. Experience with an automobile for water-works use. 38–41. Disc. 41–42, Mar.
Forest conservation. R. S. KELLOGG. 389–393. Disc. 393–408, Dec.
Frost. Protecting water pipes from freezing. Disc. 36–37, Mar.

Gas. Experience with a producer-gas plant. HARRY L. THOMAS. 1–13. Disc. 13–19, Mar.
Gloucester, Mass. Conduit in tunnel under canal. HERMAN W. SPOONER. 261–278, Sept.
Grimes, E. L. The Troy water-works extension. 164–183, June.

Hartford, Conn. Meters and water consumption of the Hartford water works. ERMON M. PECK. 282–288, Sept.
Haverhill, Mass. History of water works. ALBERT L. SAWYER. 442–461, Dec.
Heermans, Harry C. Bulletin of the Hoquiam, Wash., Water Company. 462–464, Dec.
Hermany, Charles. Obituary. 85, Mar.
Hingham, Mass. Producer-gas plant for pumping. HARRY L. THOMAS. 1–13. Disc. 13–19, Mar.
Hoquiam, Wash. Bulletin of the, water company. HARRY C. HEERMANS. 462–464, Dec.
Horton, Robert E. The adjustment of diversion damages by storage compensation. 334–344. Disc. 344–353, Sept.

Howe, Freeland, Jr. The action of water on pipes. 43–56. Disc. 56–58, Mar.
Hunking, A. W. Obituary. 499, Dec.

Insurance rates and the water service. FRANK A. BARBOUR. 322–329. Disc. 329–333, Sept.
Insurance rules and private fire protection. GORHAM DANA. 465–479. Disc. 479–494, Dec.

Joints. Rubber joints for cast-iron pipes. ROBERT SPURR WESTON. 310–315. Disc. 315–321, Sept.

Kellogg, R. S. Forest conservation. 389–393. Disc. 393–408, Dec.
Kent, Willard. Secretary's report for 1907. 64–66, Mar.
Knowles, Morris (with M. F. Collins and A. D. Marble). Filter operations, investigations for additional supply, and construction of new filter at Lawrence, Mass. 193–232. Disc. 232–236, June.

Laforest, J. O. A. Obituary. 499, Dec.
Lawrence, Mass.
Filter operations, investigations for additional supply, and construction of new filter. MORRIS KNOWLES, M. F. COLLINS, and A. D. MARBLE. 193–232. Disc. 232–236, June.
Typhoid fever at. S. DE M. GAGE. 232–236, June.
Collapse of filter roof. SANFORD E. THOMPSON. 237–246, June.
Leadite for pipe joints. Disc. 316, Sept.
Leighton, Marshall O. The conservation of water resources. 381–388, Dec.

Marble, A. D. (with Morris Knowles and M. F. Collins). Filter operations, investigations for additional supply, and construction of new filter at Lawrence, Mass. 193–232. Disc. 232–236, June.
Martin, Alfred E., President N. E. W. W. Association. Portrait. *Frontispiece.*
Meter rates. WALTER H. RICHARDS. 289–294. Disc. 294–309, Sept.
Meters.
A city's right to meter private fire services. Decision of Mass. Supreme Court in Shaw Stocking Company *v.* Lowell. 279–281, Sept.
Meters and water consumption of the Hartford water works. ERMON M. PECK. 282–288, Sept.

N E W W Association
Address. President's. JOHN C. WHITNEY. 60–64, Mar.
Committees.
On cast-iron pipe specifications. 75–76, Mar.

Depth of laying water pipes. Committee appointed. 363–370, Sept.
Diversion of water compensated for by storage. ROBERT E. HORTON. 334–344. Disc. 344–353, Sept.

Eglee, Charles H. Hollow concrete-steel dams. 20–30. Disc. 30–35, Mar.

Farnham, Irving T. Obituary. 376–377, Sept.
Filters.
Lawrence, Mass.; operation, and construction of new filter. MORRIS KNOWLES, M. F. COLLINS, and A. D. MARBLE. 192–232, June.
Collapse of filter roof at Lawrence, Mass. SANFORD E. THOMPSON. 237–246, June.
Efficiency of Watertown, N. Y., filters. F. H. JENNINGS. 136–143, June.
Fire protection.
Cost of furnishing. W. C. HAWLEY. 297–298, Sept.
Private, and insurance rules. GORHAM DANA. 465–479. Disc. 479–494, Dec.
Fire services. Private. A city's right to meter private fire services Decision of Mass. Supreme Court in Shaw Stocking Company *v.* Lowell. 279–281, Sept.
Flow of streams. CHARLES E. CHANDLER. 409–418, Dec.
Forbes, Fayette F. Experience with an automobile for water-works use. 38–41. Disc. 41–42, Mar.
Forest conservation. R. S. KELLOGG. 389–393. Disc. 393–408, Dec.
Frost. Protecting water pipes from freezing. Disc. 36–37, Mar.

Gas. Experience with a producer-gas plant. HARRY L. THOMAS. 1–13. Disc. 13–19, Mar.
Gloucester, Mass. Conduit in tunnel under canal. HERMAN W. SPOONER. 261–278, Sept.
Grimes, E. L. The Troy water-works extension. 164–183, June.

Hartford, Conn. Meters and water consumption of the Hartford water works. ERMON M. PECK. 282–288, Sept.
Haverhill, Mass. History of water works. ALBERT L. SAWYER. 442–461, Dec.
Heermans, Harry C. Bulletin of the Hoquiam, Wash., Water Company. 462–464, Dec.
Hermany, Charles. Obituary. 85, Mar.
Hingham, Mass. Producer-gas plant for pumping. HARRY L. THOMAS. 1–13. Disc. 13–19, Mar.
Hoquiam, Wash. Bulletin of the, water company. HARRY C. HEERMANS. 462–464, Dec.
Horton, Robert E. The adjustment of diversion damages by storage compensation. 334–344. Disc. 344–353, Sept.

Howe, Freeland, Jr. The action of water on pipes. 43–56. Disc. 56–58, Mar.
Hunking, A. W. Obituary. 499, Dec.

Insurance rates and the water service. FRANK A. BARBOUR. 322–329. Disc. 329–333, Sept.
Insurance rules and private fire protection. GORHAM DANA. 465–479. Disc. 479–494, Dec.

Joints. Rubber joints for cast-iron pipes. ROBERT SPURR WESTON. 310–315. Disc. 315–321, Sept.

Kellogg, R. S. Forest conservation. 389–393. Disc. 393–408, Dec.
Kent, Willard. Secretary's report for 1907. 64–66, Mar.
Knowles, Morris (with M. F. Collins and A. D. Marble). Filter operations, investigations for additional supply, and construction of new filter at Lawrence, Mass. 193–232. Disc. 232–236, June.

Laforest, J. O. A. Obituary. 499, Dec.
Lawrence, Mass.
Filter operations, investigations for additional supply, and construction of new filter. MORRIS KNOWLES, M. F. COLLINS, and A. D. MARBLE. 193–232. Disc. 232–236, June.
Typhoid fever at. S. DE M. GAGE. 232–236, June.
Collapse of filter roof. SANFORD E. THOMPSON. 237–246, June.
Leadite for pipe joints. Disc. 316, Sept.
Leighton, Marshall O. The conservation of water resources. 381–388, Dec.

Marble, A. D. (with Morris Knowles and M. F. Collins). Filter operations, investigations for additional supply, and construction of new filter at Lawrence, Mass. 193–232. Disc. 232–236, June.
Martin, Alfred E., President N. E. W. W. Association. Portrait. *Frontispiece.*
Meter rates. WALTER H. RICHARDS. 289–294. Disc. 294–309, Sept.
Meters.
A city's right to meter private fire services. Decision of Mass. Supreme Court in Shaw Stocking Company *v.* Lowell. 279–281, Sept.
Meters and water consumption of the Hartford water works. ERMON M. PECK. 282–288, Sept.

N E W W Association
Address. President's. JOHN C. WHITNEY. 60–64, Mar.
Committees.
On cast-iron pipe specifications. 75–76, Mar.

On conservation of natural resources, appointed. 254, June.
On depth of laying water pipe, appointed. 363, Sept.
On damages from diversion of water, progress report, 370-373, Sept.
On exhibits at convention. Report. 497–498, Dec.
Election of officers. 76, Mar.
Executive committee meetings.
Jan. 8, 1908. 83, Mar.
Feb. 12, 1908. 83–84, Mar.
Mar. 11, 1908. 256–260, June.
June 24, 1908. 375, Sept.
Sept. 24, 1908. 375, Sept.
Nov. 11, 1908. 497, Dec.
JOURNAL of. Prices for back numbers. 256, 259–260, June.
Meetings.
Jan. 8, 1908 (annual). 59–78, Mar.
Feb. 12, 1908. 79–82, Mar.
Mar. 11, 1908. 251–255, June.
June 24, 1908. 354–355, Sept.
Sept. 23–25, 1908. (Twenty-seventh annual convention.) 356–374, Sept.
Nov. 11, 1908. 495–496, Dec.
Members. Photograph of six surviving charter members, taken June 24, 1908. Facing 354.
Reports of officers.
Secretary. (Willard Kent.) 64–66, Mar.
Treasurer. (L. M. Bancroft.) 67–70, Mar.
Editor. (Charles W. Sherman.) 70–73, Mar.

Nibecker, Claude P. Obituary. 500, Dec.

Obituary notes.
Irving T. Farnham. 376–377, Sept.
Charles Hermany. 85, Mar.
A. W. Hunking. 499, Dec.
J. O. A. Laforest. 499, Dec.
Claude P. Nibecker. 500, Dec.
George E. Wilde. 376, Sept.

Peck, Ermon M. Meters and water consumption of the Hartford water works. 282–288, Sept.

Philadelphia, Penn. The water supply of. (Historical and descriptive.) JOHN C. TRAUTWINE, JR. 419–441, Dec.

Pipe specifications. Committee report. 75–76, Mar.

Power of a running stream without storage. WM. G. RAYMOND. 184–192, June.

Producer gas.
Experience with a producer-gas plant. HARRY L. THOMAS. 1–13. Disc. 13–19, Mar.
Discussion. HENRY CROWTHER. 247–250, June,
Pumping.
Producer-gas plant at Hingham, Mass. 1–13, Mar.
Producer-gas plant at St. Stephens, N. B. 15, Mar.

Rates for metered water. WALTER H. RICHARDS. 289–294. Disc. 294–309, Sept.
Raymond, Wm. G. Power capacity of a running stream without storage. 184–192, June.
Richards, Walter H. Meter rates. 289–294. Disc. 294–309, Sept.
Rubber joints for cast-iron pipe. ROBERT SPURR WESTON. 310–315. Disc. 315–321, Sept.

St. John, N. B. Improvement of water supply. FRANK A. BARBOUR. 322, Sept.
Sawyer, Albert L. History of the Haverhill water works. 442–461, Dec.
Sherman, Charles W. Editor's report for 1907. 70–73, Mar.
Soper, George A. The management of the typhoid fever epidemic at Watertown, N. Y., in 1904. 87–123. Disc. 123–163, June.
Specifications for cast-iron pipe. Committee report. 75–76, Mar.
Spooner, Herman W. The sub-aqueous pipe and electric cableway at Gloucester, Mass. 261–278, Sept.
Stream flow data. CHARLES E. CHANDLER. 409–418, Dec.

Taxation of municipal water works at Holyoke, Mass. HUGH MCLEAN. 301, Sept.
Thomas, Harry L. Experience with a producer-gas plant. 1–13. Disc. 13–19, Mar.
Thompson, Sanford E. Collapse of filter roof at Lawrence, Mass. 237–246, June.
Trautwine, John C., Jr. The water supply of Philadelphia. (Historical and descriptive.) 419–441, Dec.
Troy, N. Y. Water works extension. E. L. GRIMES. 164–183, June.
Tunnel. Pipe conduit under canal at Gloucester, Mass. HERMAN W. SPOONER. 261–278, Sept.
Typhoid fever.
The epidemic of 1904 at Watertown, N. Y. GEORGE A. SOPER. 87–123. Disc. 123–163. June.
Lawrence, Mass. 1907. S. D. GAGE and M. F. COLLINS. 232–236, June.

Water, action of, upon pipes. FREELAND HOWE, JR. 43–56. Disc. 56–58, Mar.

Water power. Power capacity of a running stream without storage. WM. G. RAYMOND. 184–192, June.

Water resources, conservation of. M. O. LEIGHTON. 381–388, Dec.

Water supply. Philadelphia, Penn. (Historical and descriptive.) JOHN C. TRAUTWINE, JR. 419–441, Dec.

Watertown, N. Y.

Typhoid fever epidemic in 1904. GEORGE A. SOPER. 87–123. Disc. 123–163, June.

Filters, efficiency of. F. H. JENNINGS. 136–143, June.

Water works: effect of, in reducing insurance rates. FRANK A. BARBOUR. 322–329. Disc. 329–333, Sept.

Water works.

Haverhill, Mass., History of. ALBERT L. SAWYER. 442–461, Dec.

Troy, N. Y. E. L. GRIMES. 164–183, June.

Weston, Robert Spurr. Rubber joints for cast-iron pipes. 310–315. Disc. 315–321, Sept.

Whitney, John C. President's address. 60–64, Mar.

Wilde, George E. Obituary. 376, Sept.